

What is claimed is:

1. A system, comprising:
 - a mobile station, including:
 - a first level 1, a first level 2, and a first level 3 protocol for a licensed wireless service having a licensed wireless channel serviced by a telecommunications network; and
 - a second level 1, a second level 2, and a second level 3 protocol for an unlicensed wireless service activated when said mobile station is within an unlicensed wireless service area;
 - an indoor base station operable to receive an unlicensed wireless channel from said mobile station; and
 - an indoor network controller coupled to said indoor base station and adapted to exchange signals with said telecommunications network;
 - wherein said network controller and said indoor base station are configured to convert said second level 1, said second level 2, and said second level 3 protocol into a standard base station controller interface protocol recognized by said telecommunications network;
 - wherein said mobile station, said indoor base station, and said network controller are configured to establish a communication session on said unlicensed wireless channel using said standard base station controller interface protocol of said licensed network.
2. The system of claim 1, wherein said mobile station, indoor base station, and network controller are configured to generate a service request message to said telecommunications network to initiate a handover from said licensed wireless channel to said unlicensed wireless channel.
3. The system of claim 1, wherein said telecommunication network comprises a mobile switch center for voice data.
4. The system of claim 1, wherein said mobile station is configured to register its location with said indoor network controller subsequent to detection that it is within said unlicensed wireless service area.

5. The system of claim 1, wherein said second level 1 protocol comprises a Bluetooth protocol.
6. The system of claim 1, wherein said second level 1 protocol comprises a wireless local area network protocol.
7. The system of claim 1, wherein said second level 3 protocol comprises a radio resource sublayer adapted for said unlicensed wireless system, wherein an access mode switch is triggered to utilize a mobility management sublayer and a call management sublayer shared with said first level 3 protocol.
8. The system of claim 1, wherein said mobile station is configured to register its location with said indoor network controller.
9. A method of providing wireless services using an unlicensed wireless service and a licensed wireless service, the method comprising:
 - in a first mode of operation, utilizing a licensed wireless channel associated with a telecommunications network to service a communication session with a mobile station;
 - in response to detecting that said mobile station is within a service area of said unlicensed wireless service, generating level 1, level 2, and level 3 protocols of said mobile set for said unlicensed wireless service;
 - converting said level 1, level 2, and level 3 protocols for said unlicensed wireless service into a base station controller interface format compatible with said telecommunications network; and
 - sending a request to said telecommunications network in said base station controller format to service a communications session using an unlicensed wireless channel of said unlicensed wireless service.
10. The method of claim 9, further comprising:
 - generating a location update for said unlicensed service; and
 - sending said location update to said telecommunications network in said base station controller format.

11. The method of claim 9, further comprising: subsequent to said detecting that said mobile station is with said service area of said unlicensed wireless service, registering with an indoor network controller.

12. The method of said 9, wherein said converting is performed in at least one of an indoor base station and an indoor network controller.

13. The method of claim 9, wherein said level 1 protocol is a Bluetooth level 1 protocol.

14. The method of claim 13, wherein said level 2 protocol is a Bluetooth level 2 protocol.

15. The method of claim 9, wherein said level 1 protocol is a wireless local area network protocol.

16. The method of claim 15, wherein said level 2 protocol is a wireless local area network level 2 protocol.

17. The method of claim 9, further comprising: in response to detecting that said mobile station is leaving said service area of said unlicensed wireless service, sending a message to said telecommunications network indicative of a detached condition, whereby said telecommunications network initiates a handover to said licensed wireless service.

18. A method of providing wireless service using an unlicensed wireless channel and a licensed wireless channel, the method comprising;

in a first mode, servicing a communication session using a licensed wireless channel;

in a second mode, generating protocols for servicing a communication session using said unlicensed wireless channel, wherein said protocols are in a base station controller interface format received by a telecommunication network servicing said licensed wireless channel; and

emulating a base station controller service request to trigger said telecommunication network to initiate a handover between said licensed wireless channel and said unlicensed wireless channel.

19. The method of claim 18, further comprising: emulating a base station controller request to handoff a communication session to another base station controller.

20. The method of claim 18, wherein a single telephone number is associated with providing a communication session on either said licensed wireless service or said unlicensed wireless service.